

## Claims

Please insert the following new claims.

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6. The method of claim 4 wherein the image contains less than 260 pixels.
7. The method of claim 1 wherein the hyperplane is a non-linear hyperplane.
8. The method of claim 1 wherein the classification error is less than 4%.
9. The method of claim 1 wherein the training images are non-linear, homogeneous and symmetric training images.
10. The method of claim 7 further comprising:  
determining the non-linear hyperplane using a non-linear projection function.
11. The method of claim 10 wherein the projection function is a radial basis function that minimize an upper bound on an expected test error.
12. The method of claim 1 further comprising:  
determining the hyperplane using a quadratic classifier.

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